



**The fusion** between  
the solidarity economy  
and industrial  
performance



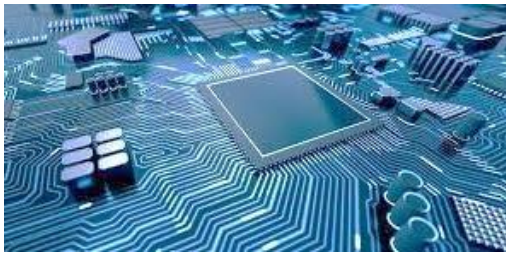
**Since 1957 - 5 sites - 600 staff members**



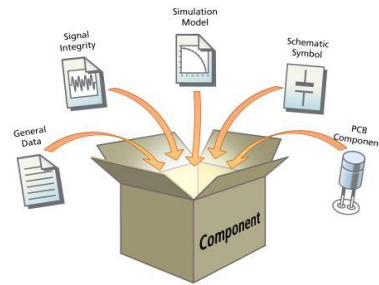
More than 25 years of experience  
In particular with CERN



## Design office



Microelectronics design  
**CADENCE**

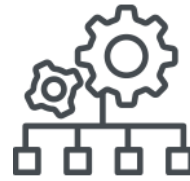


Fast prototyping  
**72h**



Electronics design  
**ALTIUM/ORCAD**





# OUR COOPERATION



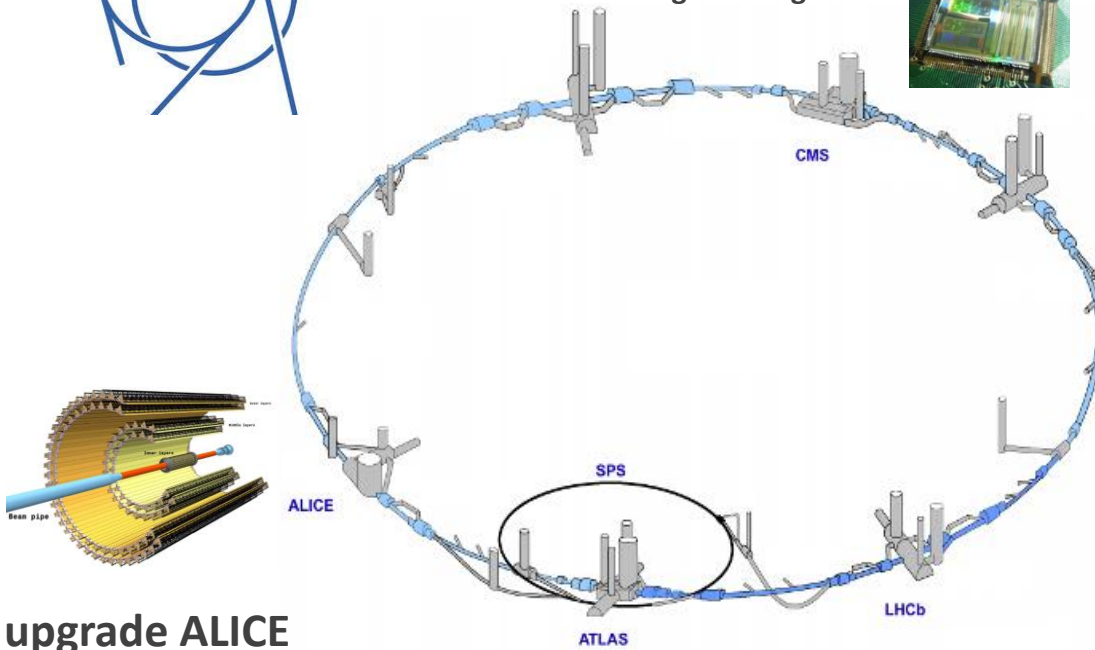
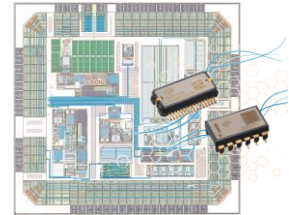
**TOTEM**  
ASIC VFAT – IBM 0,25µm  
Digital design



**ASIC Accelerometer  
signal conditioning**



XFAB 180nm



## upgrade ALICE

ASIC ALPIDE– TJZ 180nm  
ASIC LePIX IBM 90nm  
Monolithic APS



## upgrade ATLAS

ASIC MALTA– TJZ 180nm  
Analog-digital design



## ASIC CID3G

Low Noise, Low Power  
Collab. with CPPM  
Radio-activity sensor



# Fast prototyping



**Test IC**  
Prober Station  
Laser Cutting

**3D Printing**  
Stereolithography



**Laser marking**



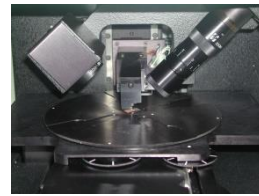
# Circuit Board

Milling machine  
SMS pick'place  
Reflow oven



# Material characterization

Profilometer 1nm precision  
Resistivitymeter  $10^{-3} - 5 \cdot 10^8 \Omega/\text{carré}$



# RF Measurement

Network analyser 13,5Ghz  
Spectral analyser 18Ghz



# Integration



Electronic board



Up to 150 mm<sup>2</sup>  
Electrical harnesses



Electronic and  
Power assembly



Electronic wiring



**ALSTOM**

**THALES**

**Schneider**  
Electric



**COBHAM**

**MEGGITT**



## Close to CERN Facilities

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